

Amendments to the Specification:

Please replace the paragraph beginning at page 10, line 8 with the following amended paragraph.

In steps 44-48, an expected speed and expected travel time for the next segment 11 of the roadway are calculated for the vehicle 12 that has been detected. In step 44, the expected speed for each identified vehicle 14 is calculated. For each vehicle  $V_i$  entering a road segment 11 denoted  $S_j$  starting Toll Gateway 24, a start speed is given by:

$StartSpeed[V_i, S_j]$  = instantaneous speed of  $V_i$  at the start of  $S_j$ ;

Where:

$S_j$  denotes the segment 11 starting with Toll Gateway 24; and

$V_i$  denotes a vehicle 12 identified by Toll Gateway's 24 AVI reader 22.

The Toll Gateway 24 can measure the speed of a vehicle as it passes without stopping.

Please replace the paragraph beginning at page 10, line 18 with the following amended paragraph.

For each vehicle 12 denoted  $V_i$  entering a road segment 11 denoted  $S_j$  that starts with a TPR 20 the starting speed for the segment 11 is determined from the average speed over the prior segment, since a TPR 20 can not measure instantaneous speed, and is calculated by :

$StartSpeed[V_i, S_j]$  = average speed of  $V_i$  over prior segment from  $S_{j-1}$  to  $S_j$ , computed from the length of segment  $S_{j-1}$  divided by the time to complete the segment.[.]